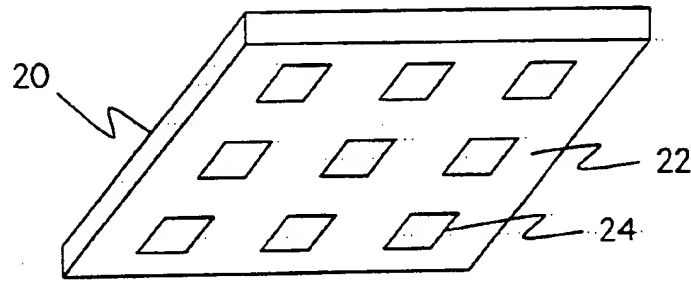


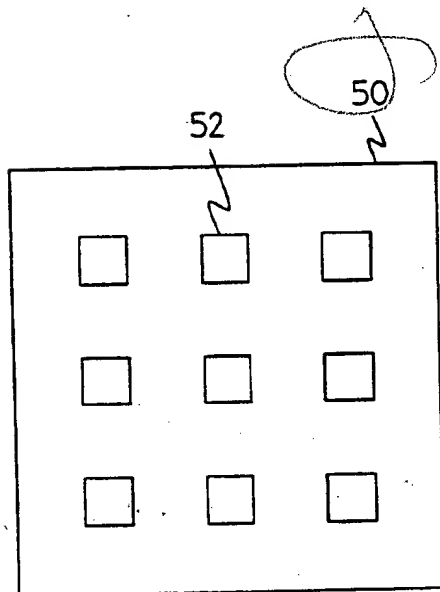
Fig. 1A

09844626-042701



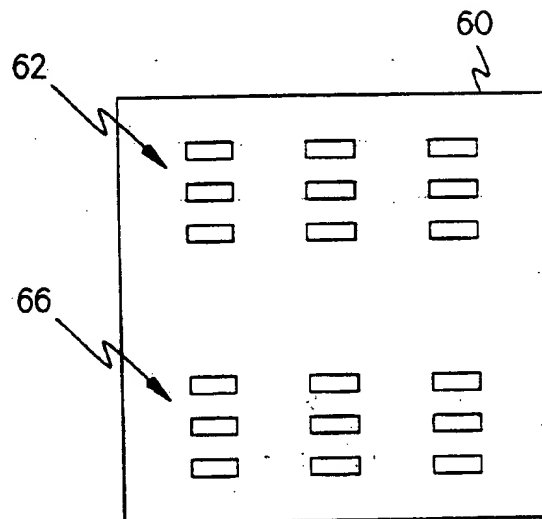
CALIBRATION  
RETICLE

Fig- 1B1



BOTTOM VIEW  
IMAGE

Fig- 1B2



2 SIDE VIEWS  
IMAGE

Fig- 1B3

09044626-042701

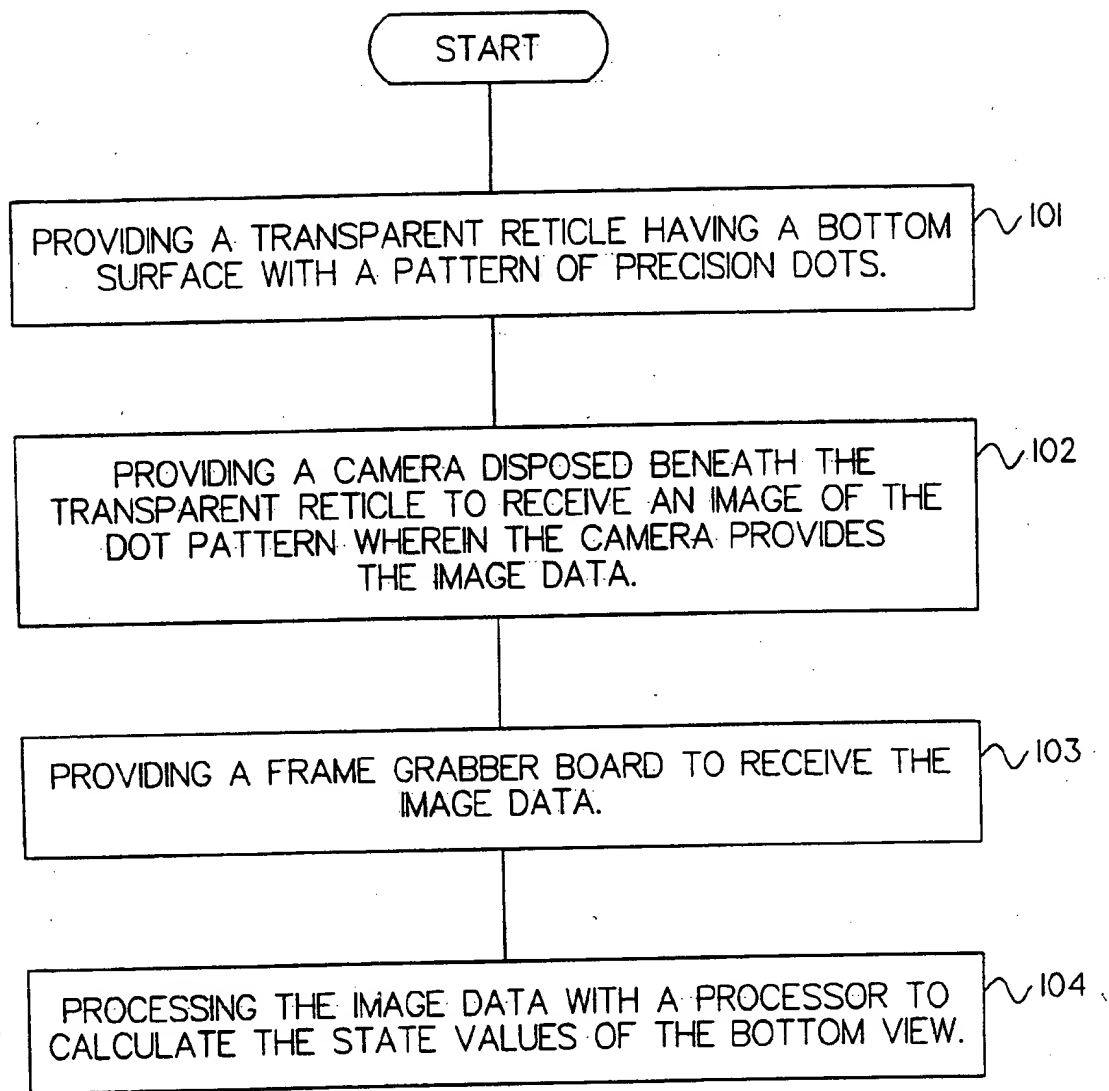


Fig- 2A

09844626-042701

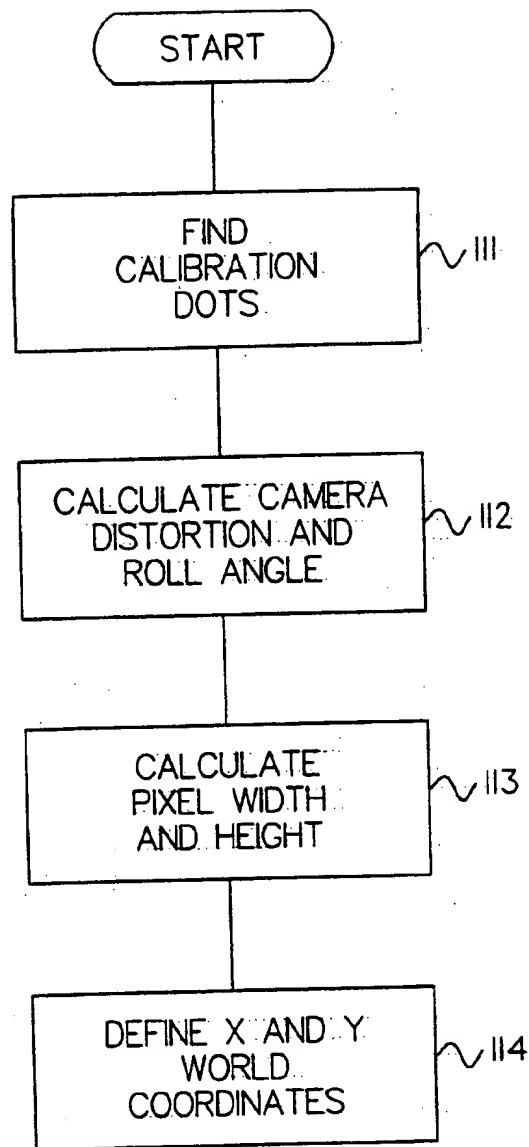


Fig. 2B

09844626.042701

START

PROVIDING A TRANSPARENT RETICLE HAVING A BOTTOM SURFACE WITH A PATTERN OF PRECISION DOTS. ~121

PROVIDING FIXED OPTICAL ELEMENTS FOR OBTAINING SIDE PERSPECTIVE VIEWS. ~122

PROVIDING A CAMERA DISPOSED TO RECEIVE AN IMAGE OF SIDE PERSPECTIVE VIEWS REFLECTED FROM OPTICAL ELEMENTS. ~123

PROVIDING A FRAME GRABBER BOARD TO RECEIVE THE IMAGE DATA. ~124

PROCESSING THE IMAGE DATA WITH A PROCESSOR TO CALCULATE THE STATE VALUES OF THE SIDE PERSPECTIVE VIEWS. ~125

Fig-2C

09344526-042701

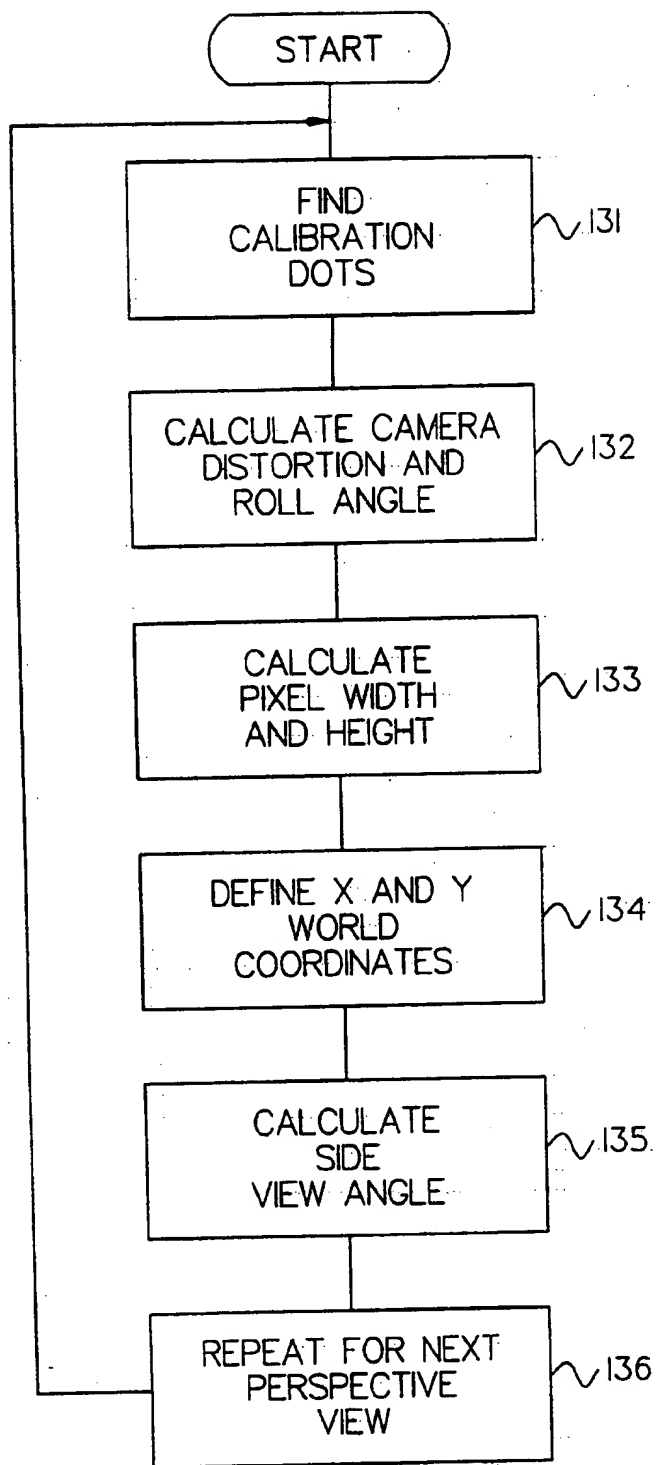


Fig- 2D

0944536-042701

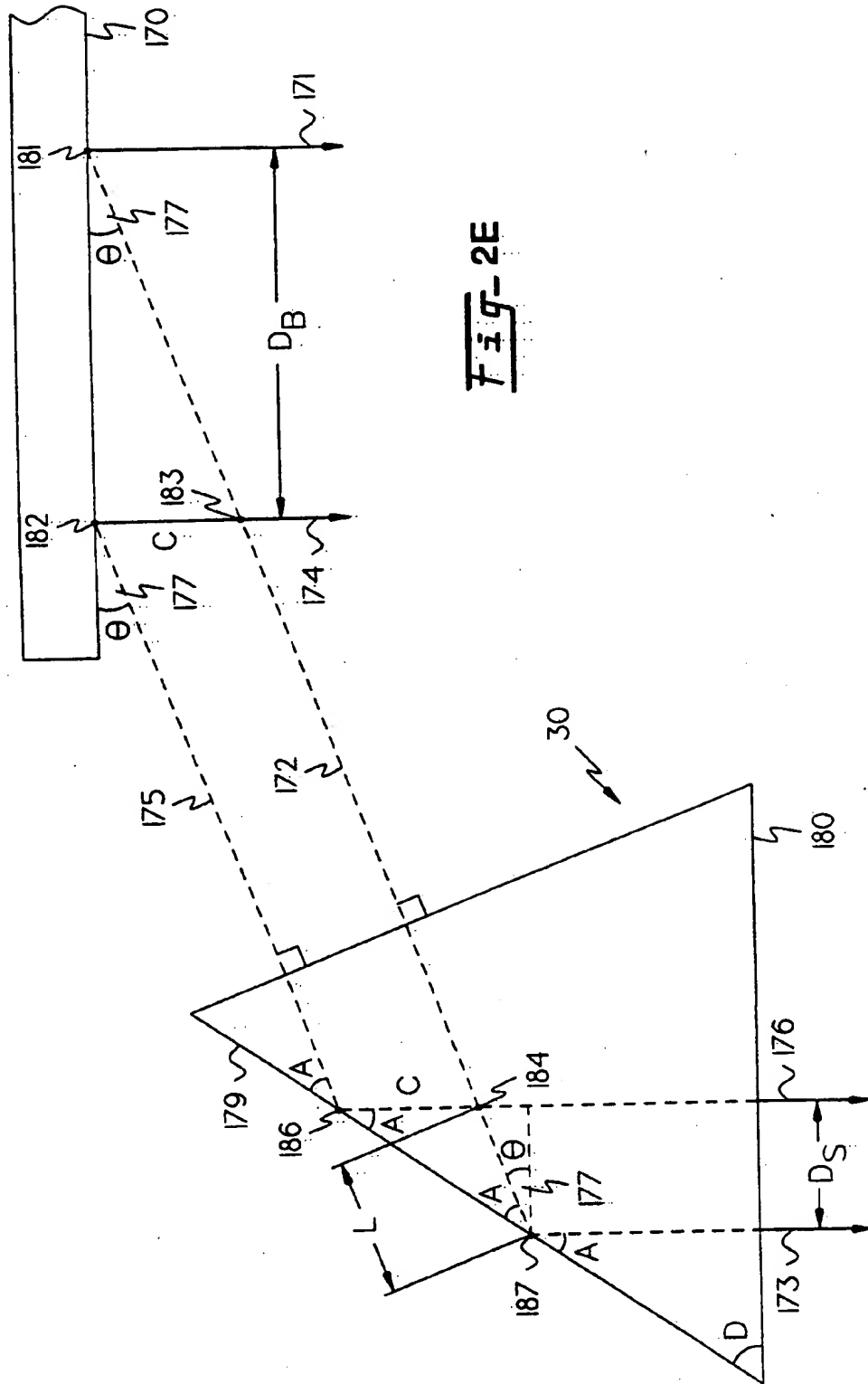


Fig-2E

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FOZHO" 92944860

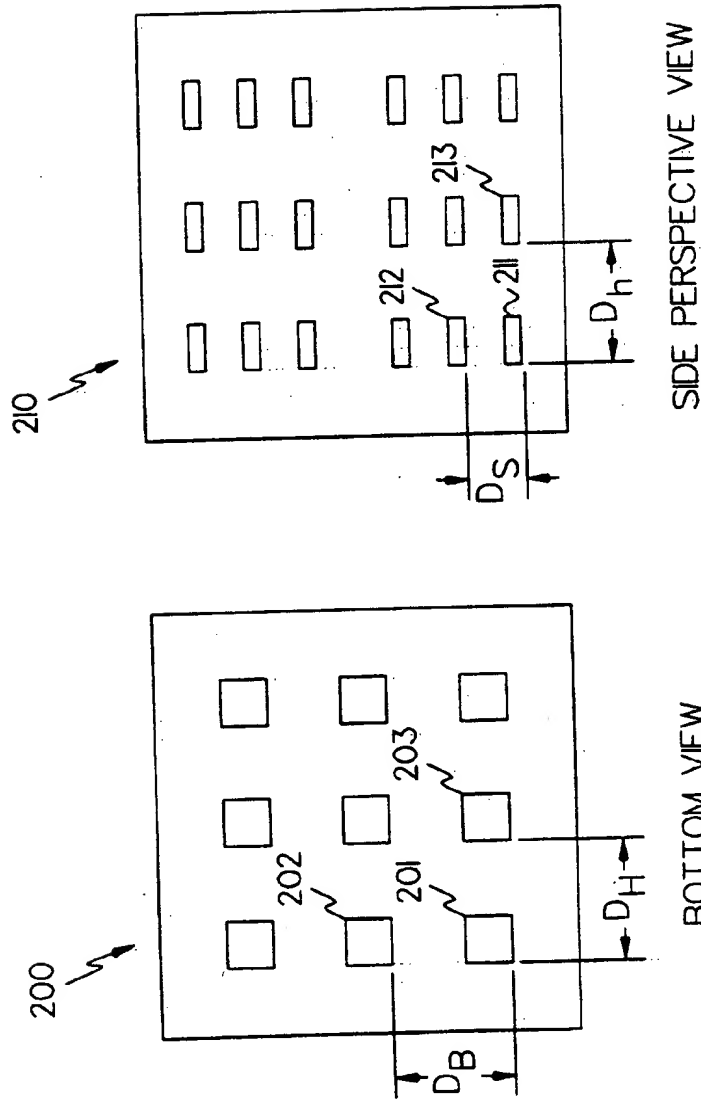
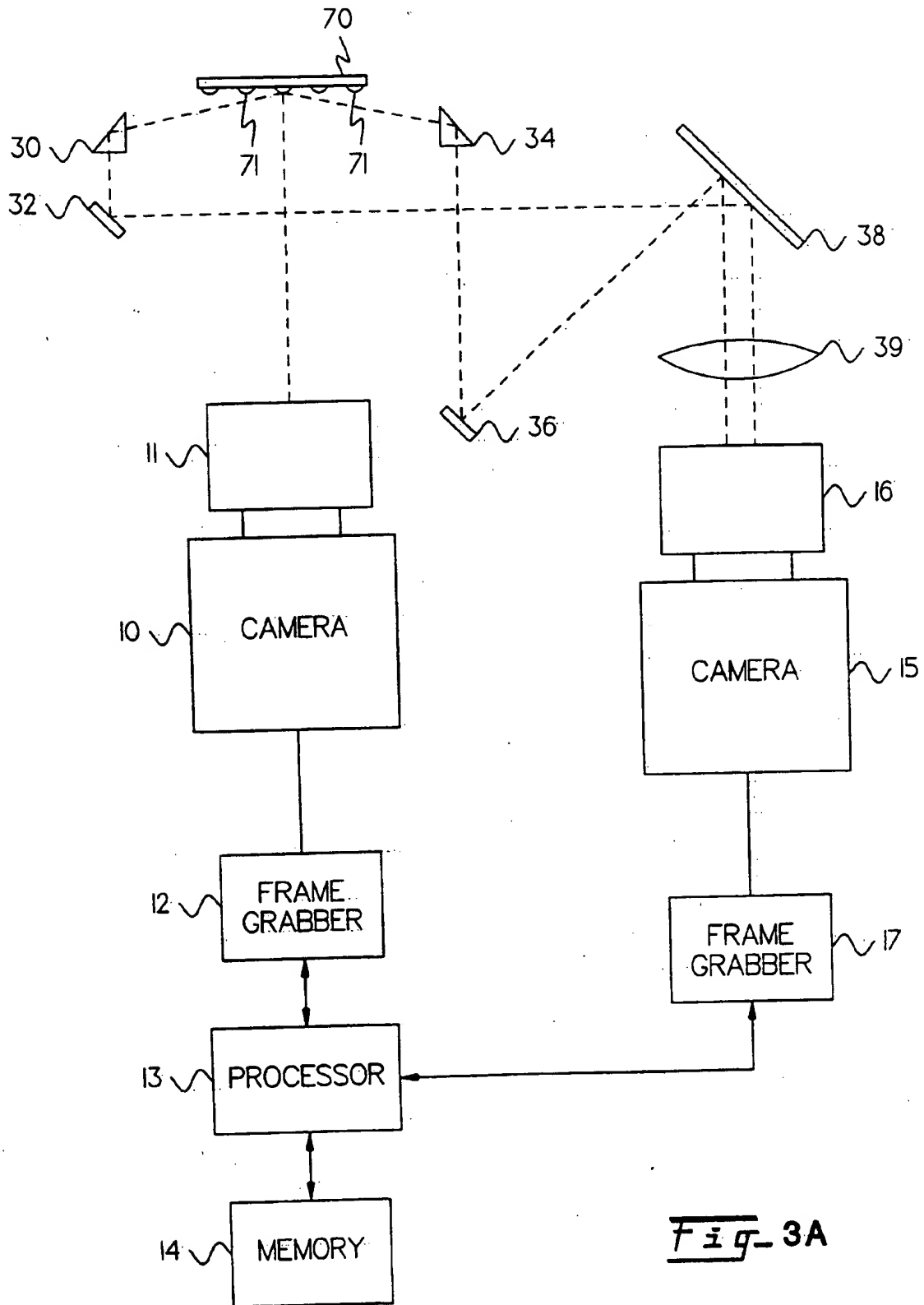


Fig-2F2

Fig-2F1



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Fig. 3A

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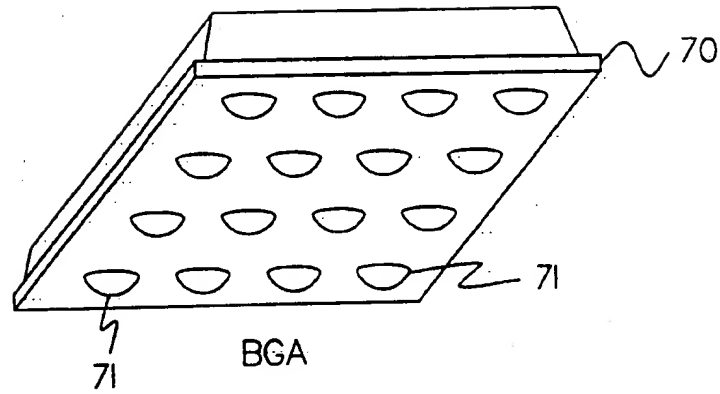
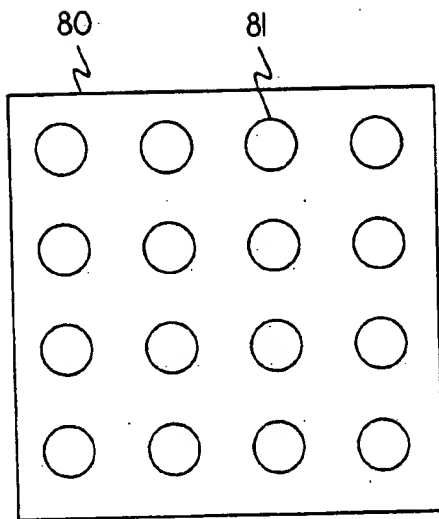
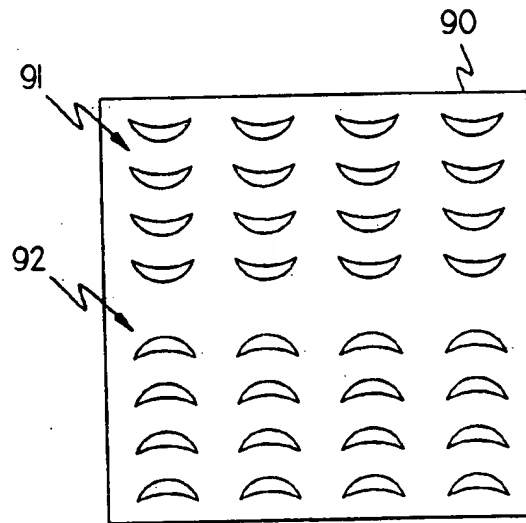


Fig- 3B1



BOTTOM VIEW  
IMAGE

Fig- 3B2



2 SIDE VIEWS  
IMAGE

Fig- 3B3

09844626-042701

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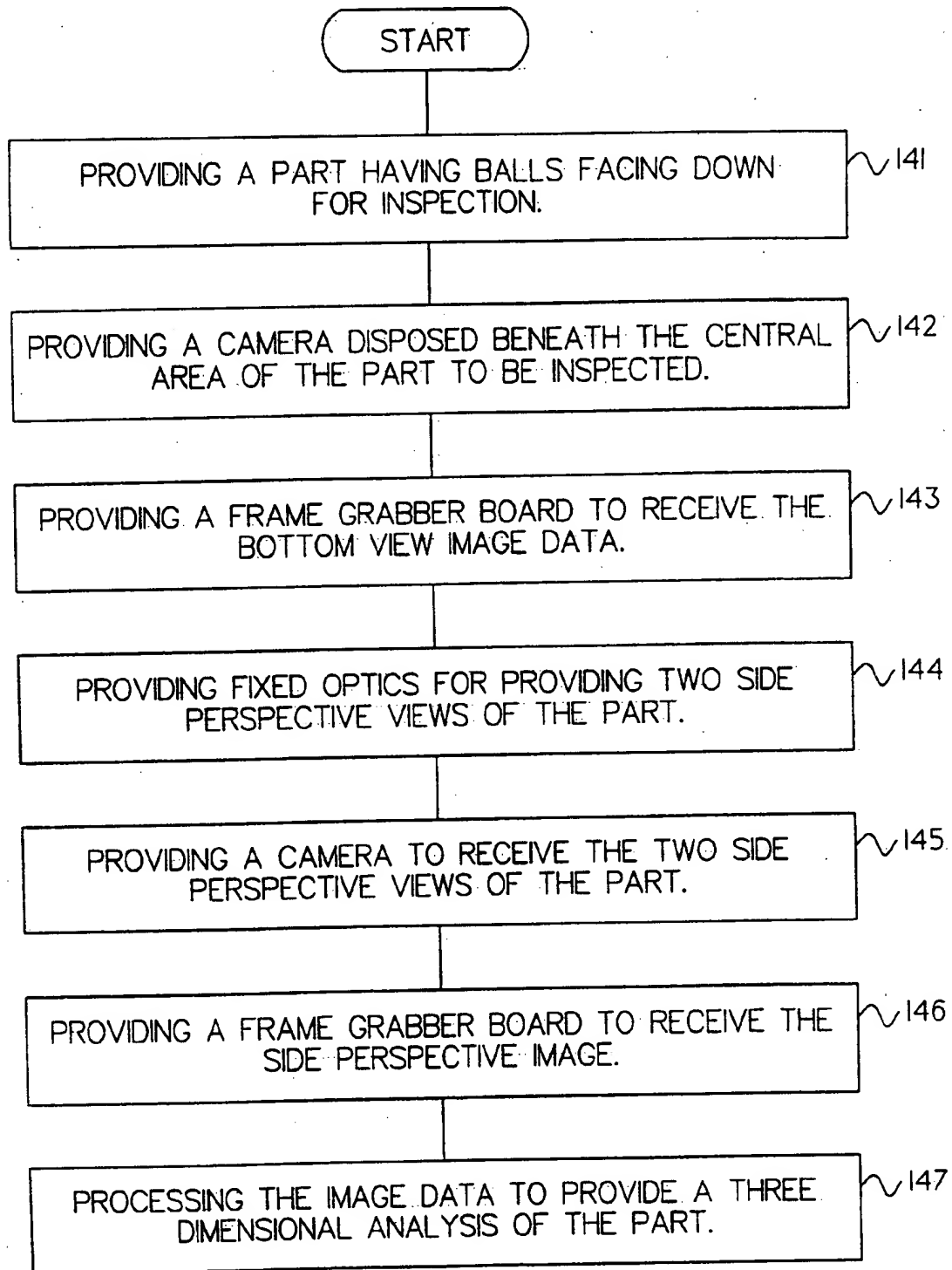


Fig-4

09446204701

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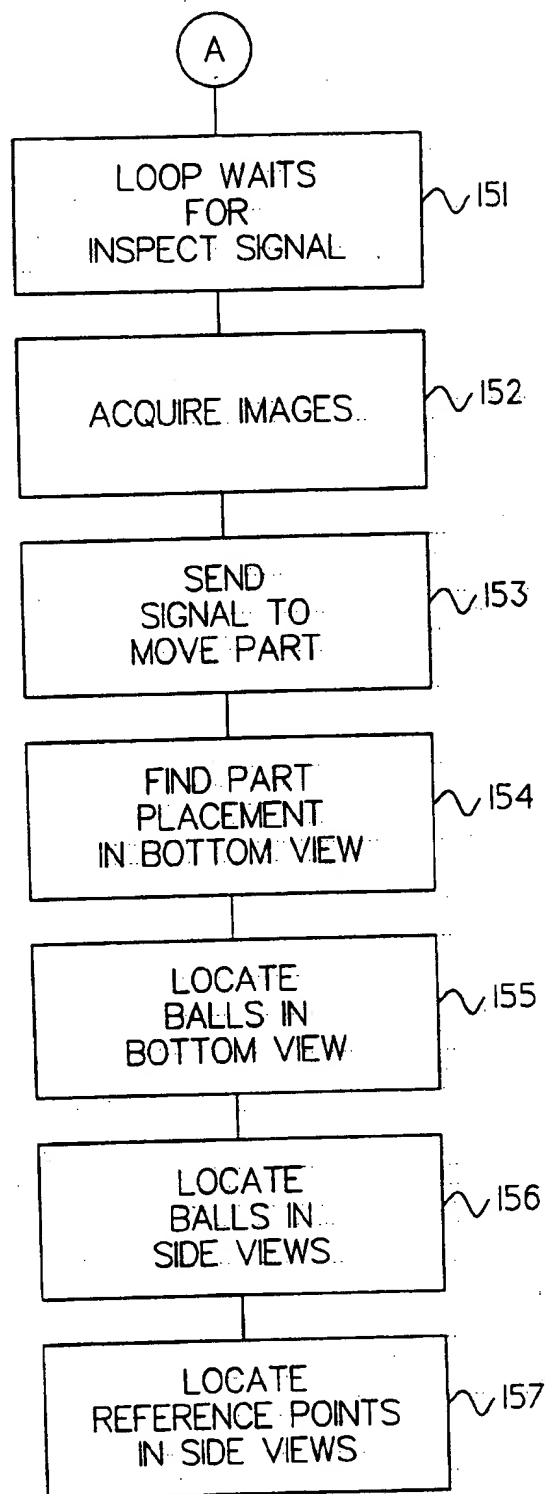


Fig-5A

102210" 92944860

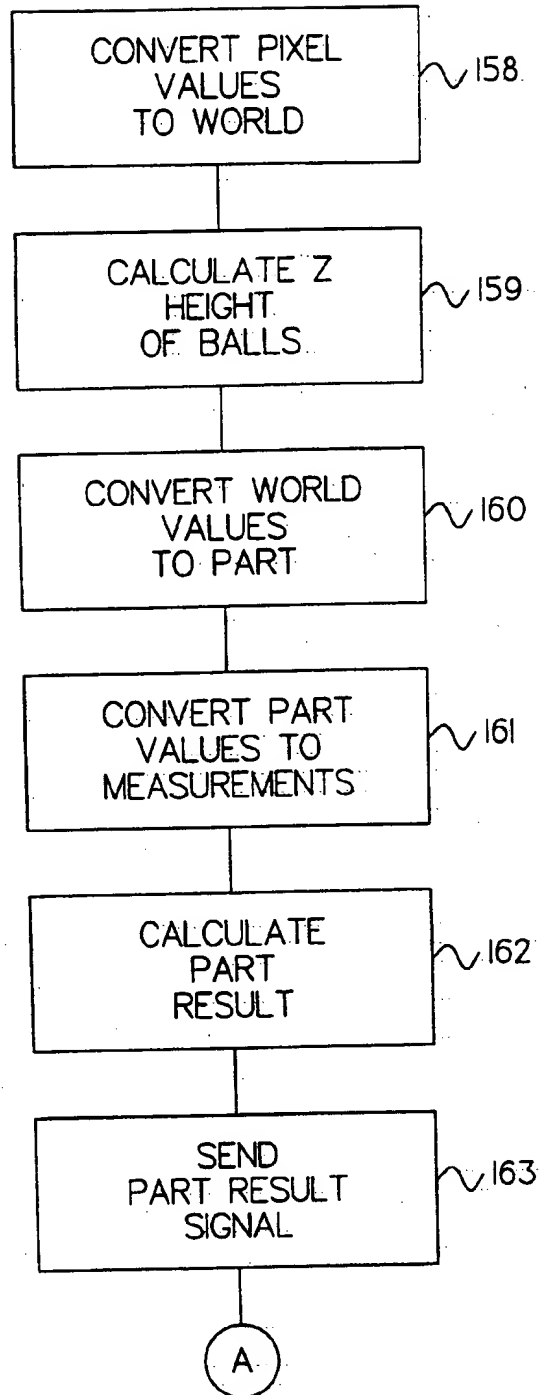


Fig-5B

09844526-042701

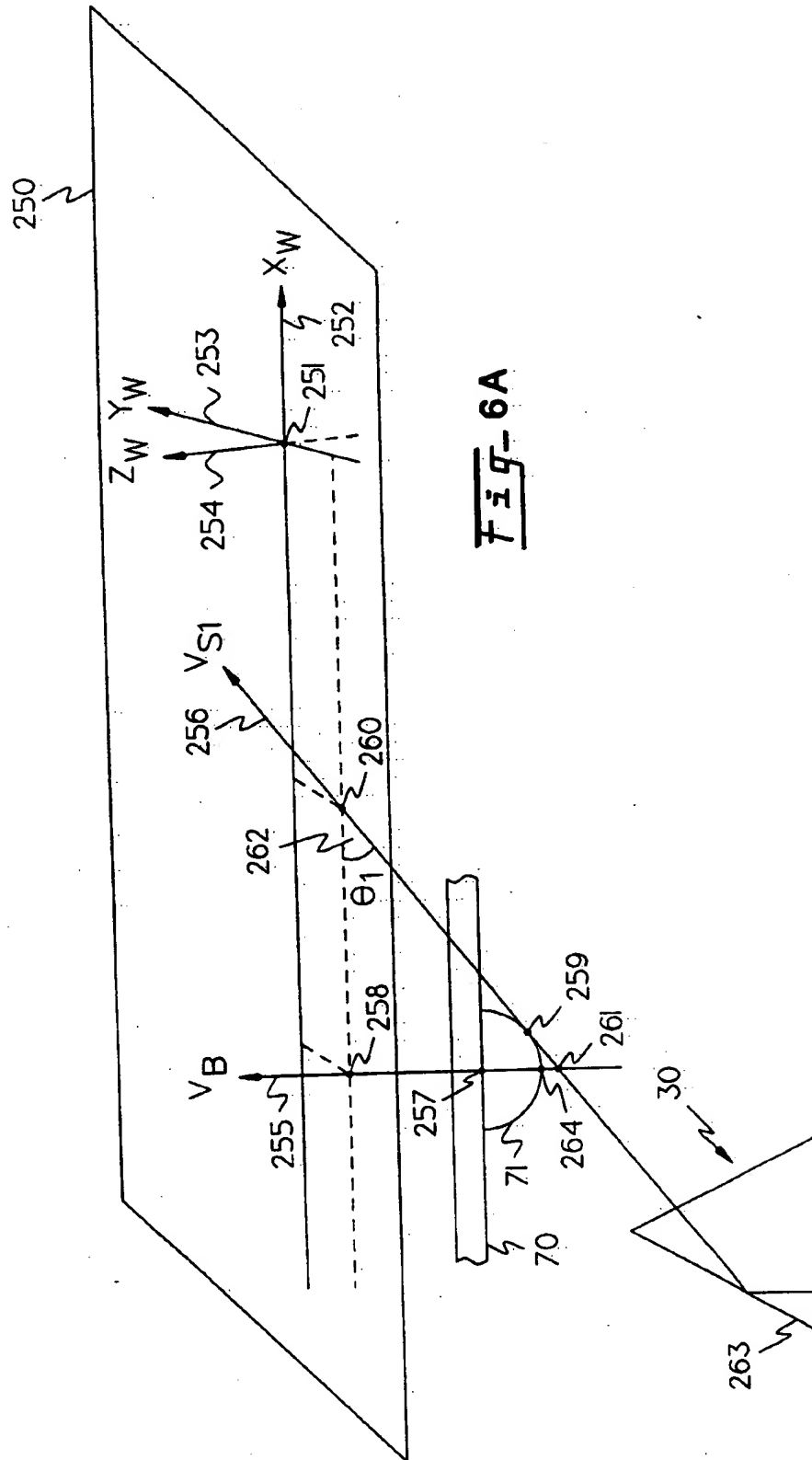


Fig-6A

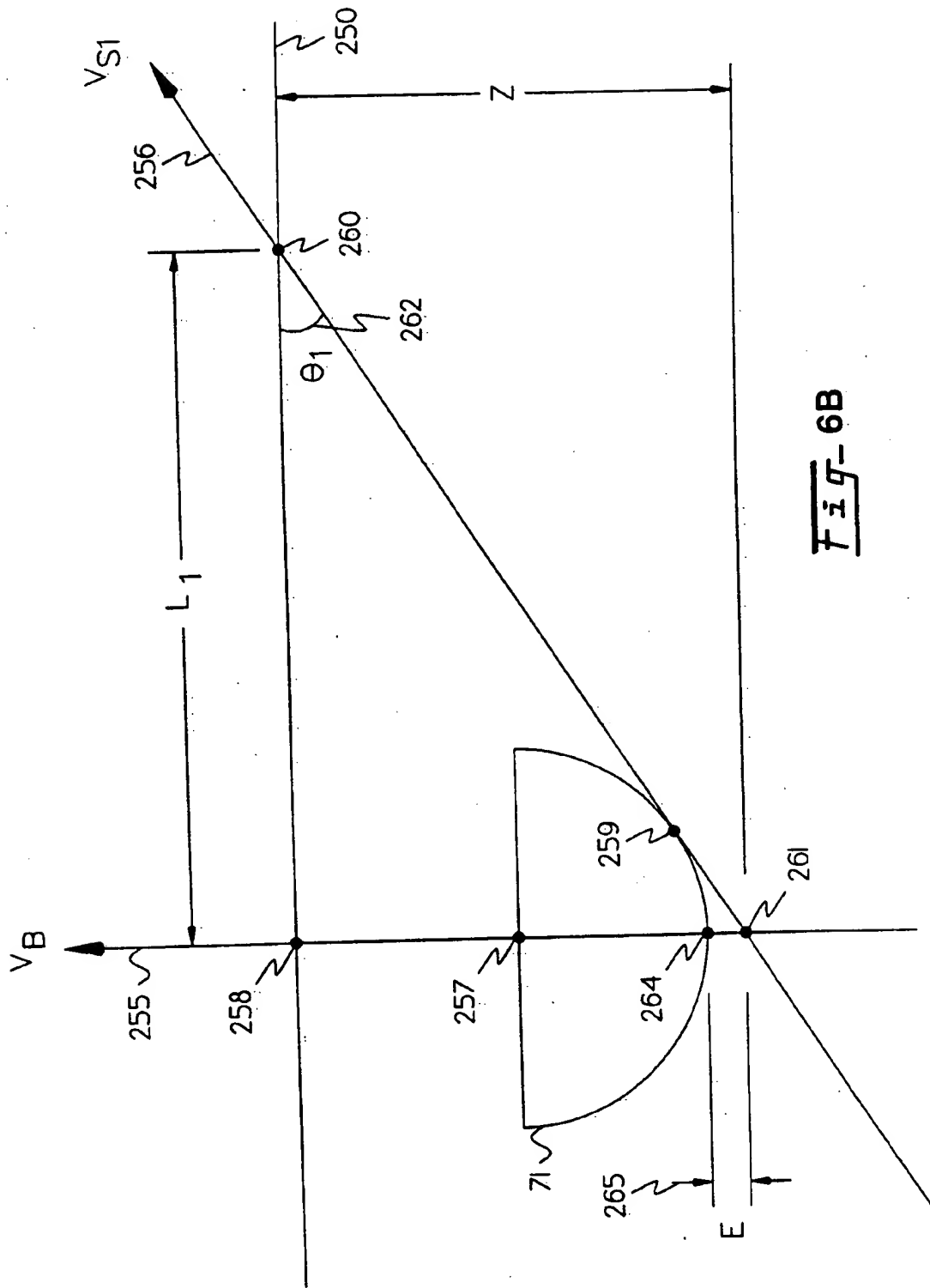


Fig-6B

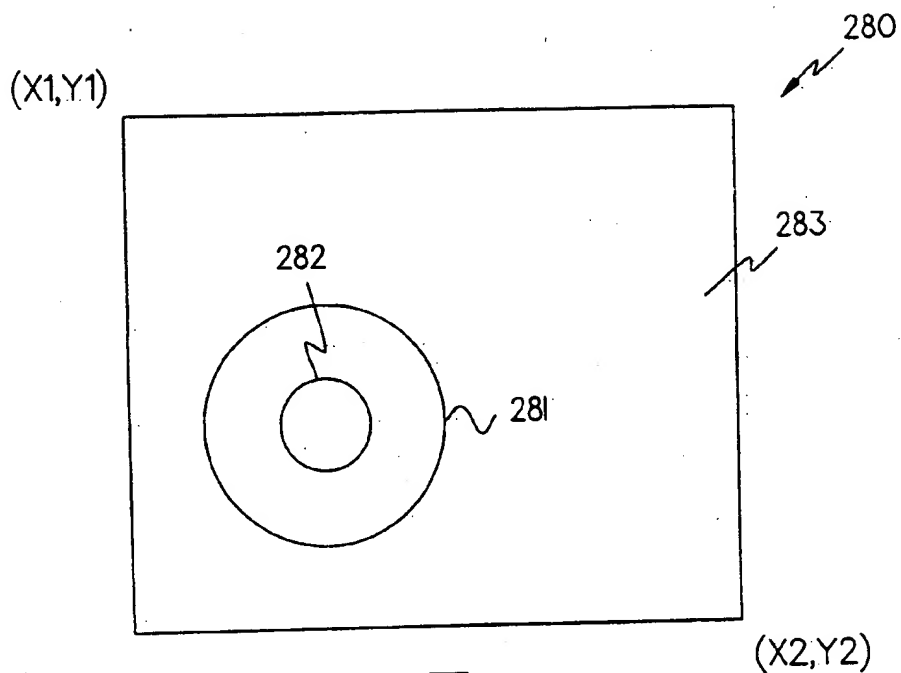


Fig-7A

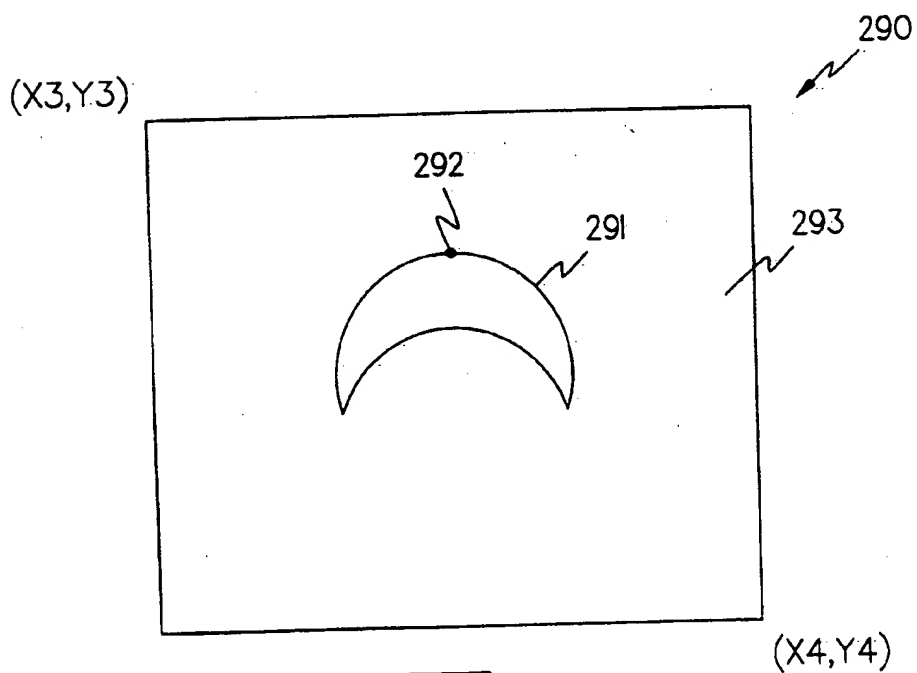
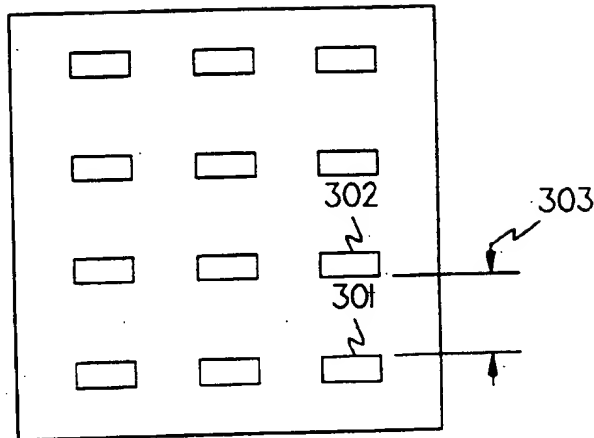


Fig-7B

09844626-042701



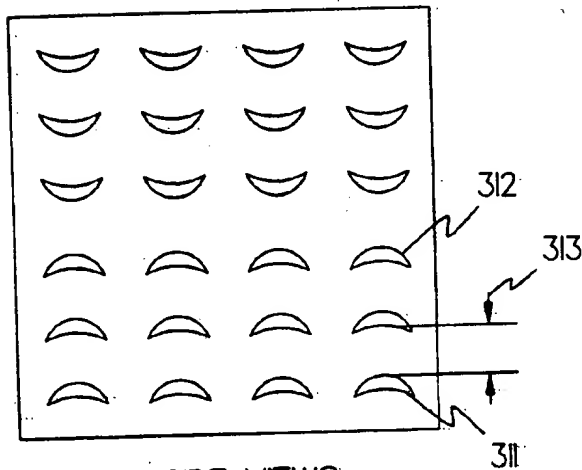
300



2 SIDE VIEWS  
CALIBRATION PATTERN

Fig- 8A

310

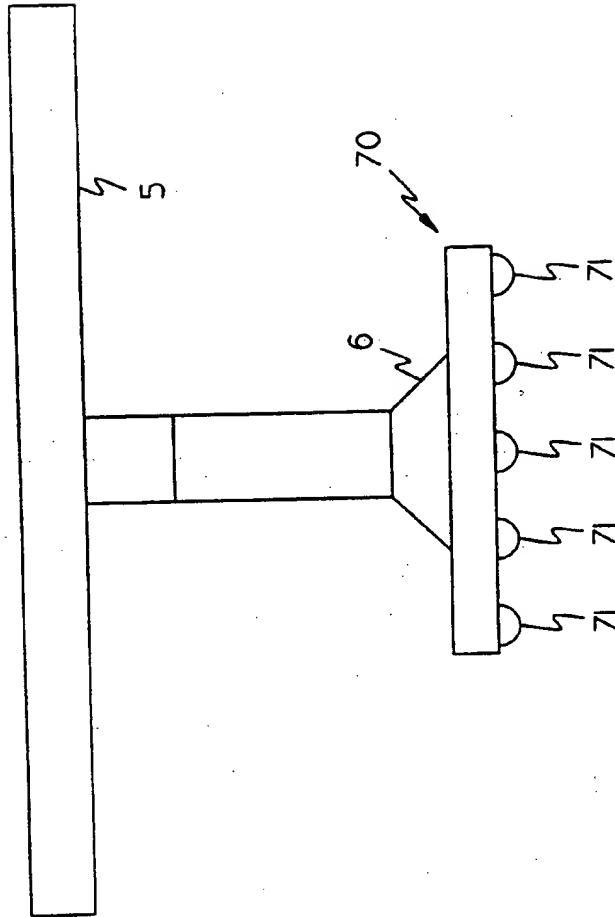


2 SIDE VIEWS  
BALLS

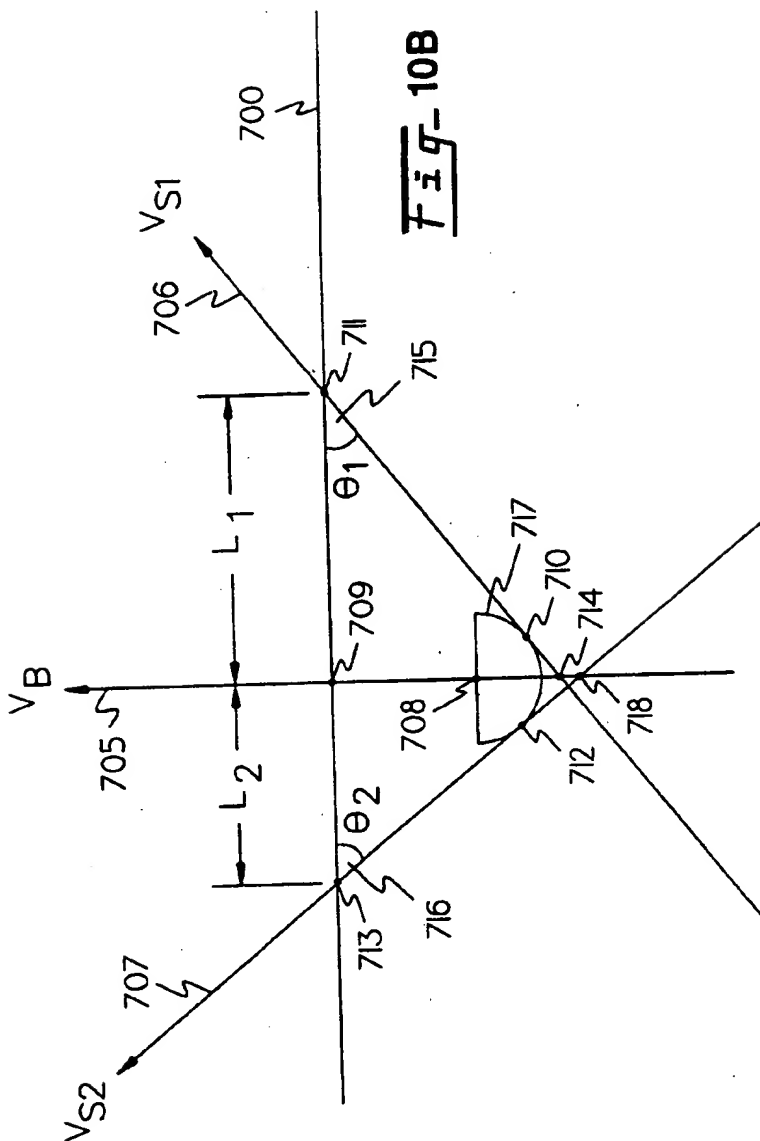
Fig- 8B

09844526 042701

Fig-9







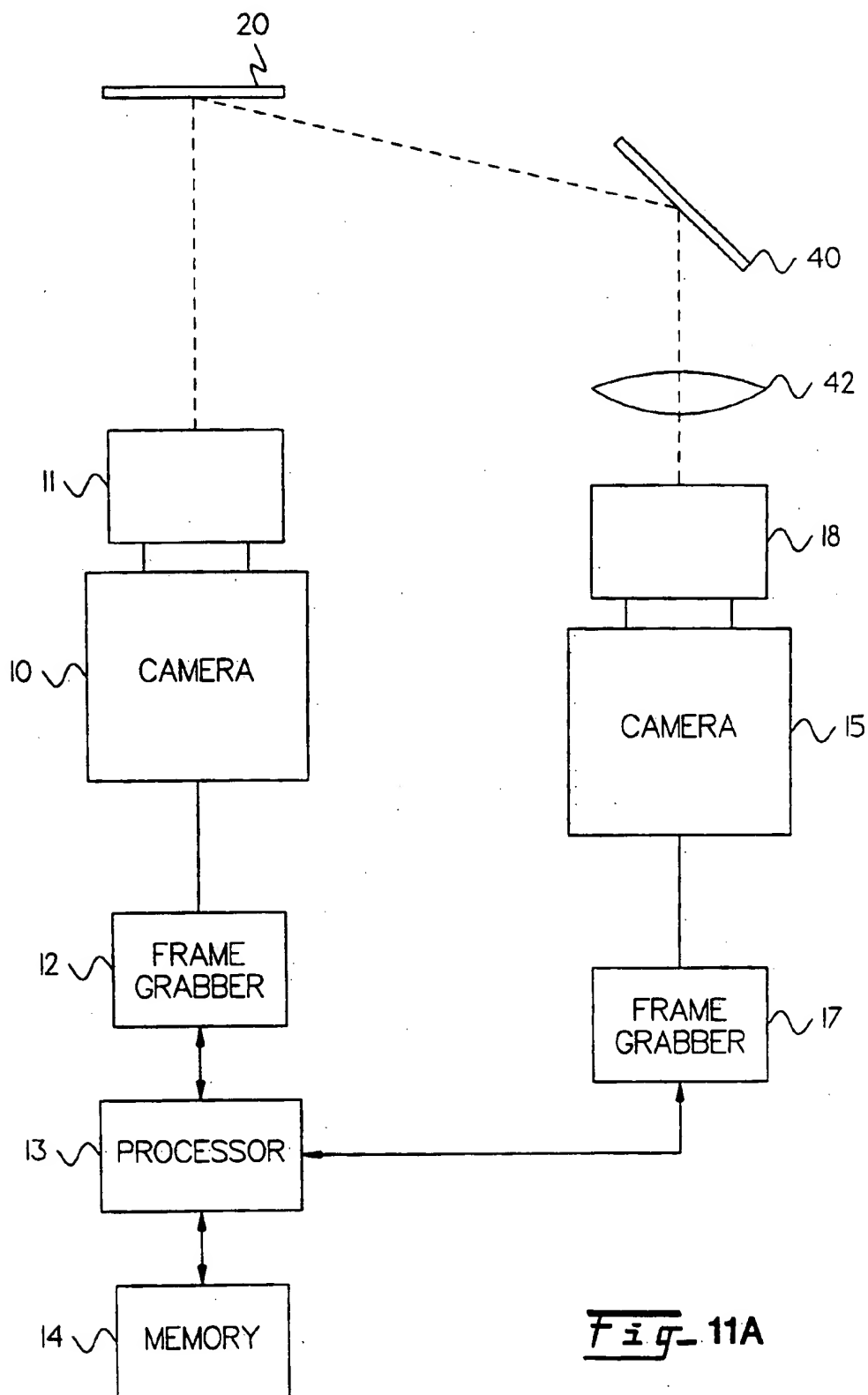


Fig. 11A

FOI 929446 0420

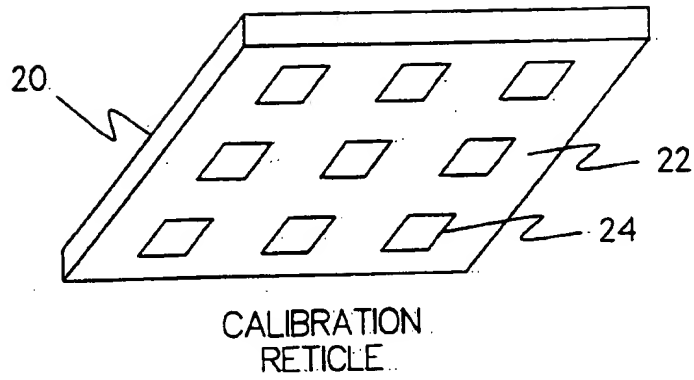
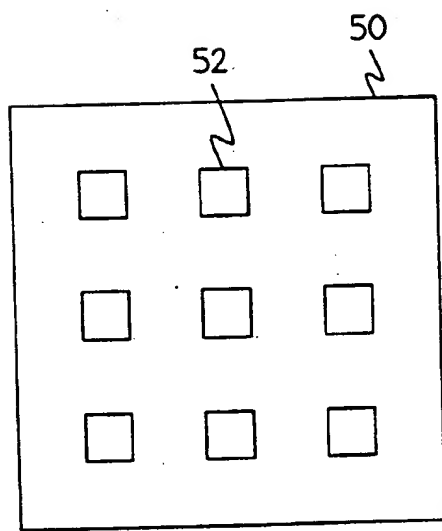
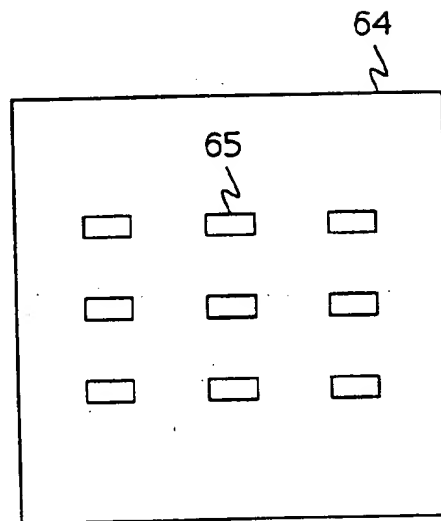


Fig. 11B1



BOTTOM VIEW IMAGE

Fig. 11B2



SIDE VIEW IMAGE

Fig. 11B3

0984466 042701

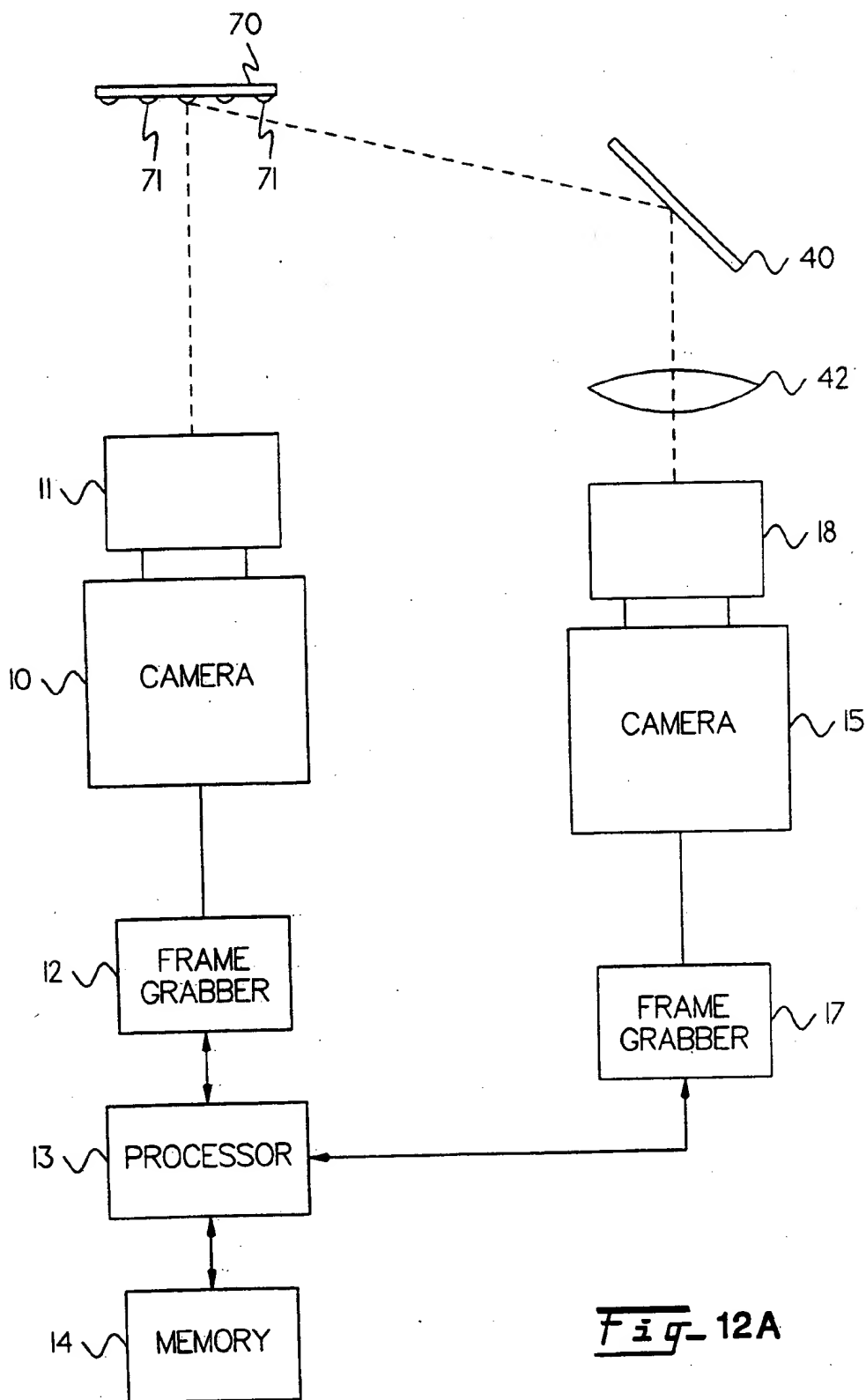


Fig. 12A

FOI 92-04240

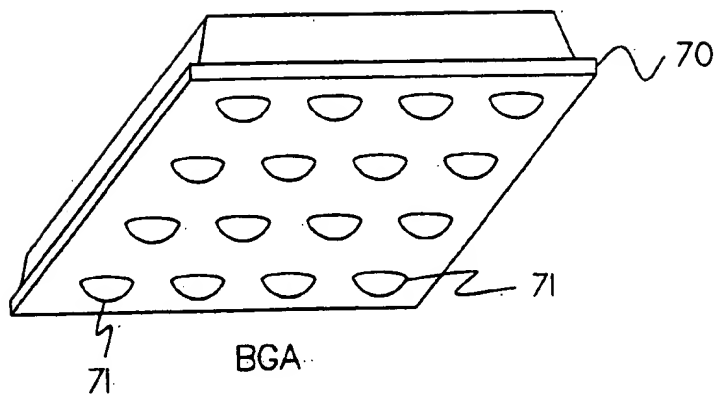
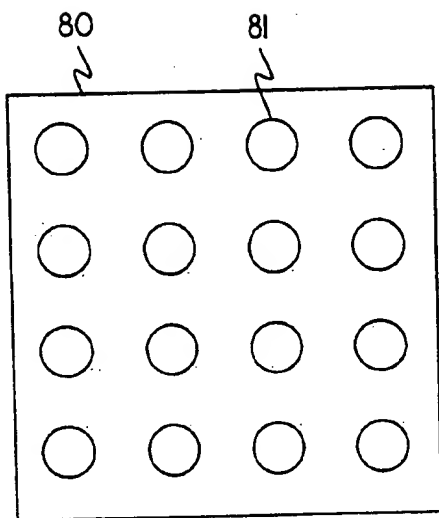
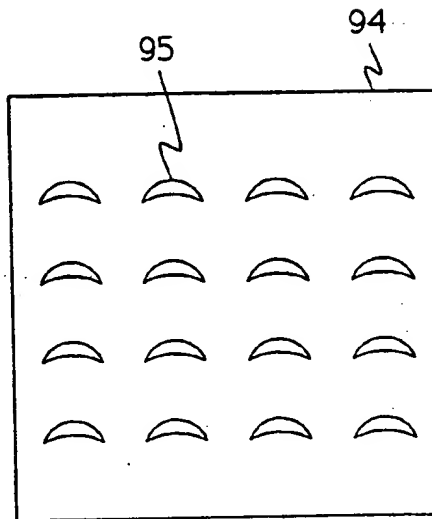


Fig- 12B1



BOTTOM VIEW IMAGE

Fig- 12B2



SIDE VIEW IMAGE

Fig- 12B3

FOI 92944860



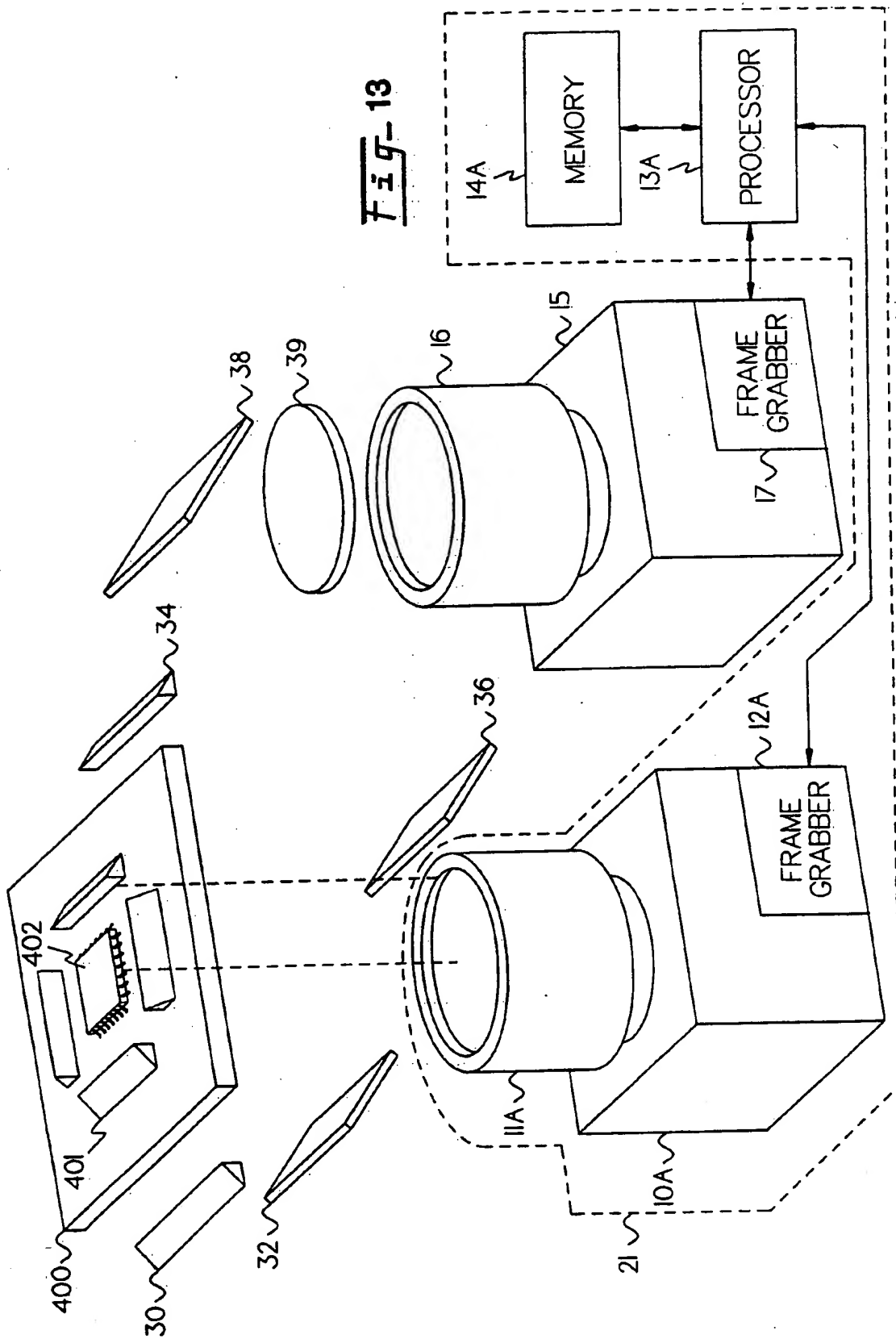
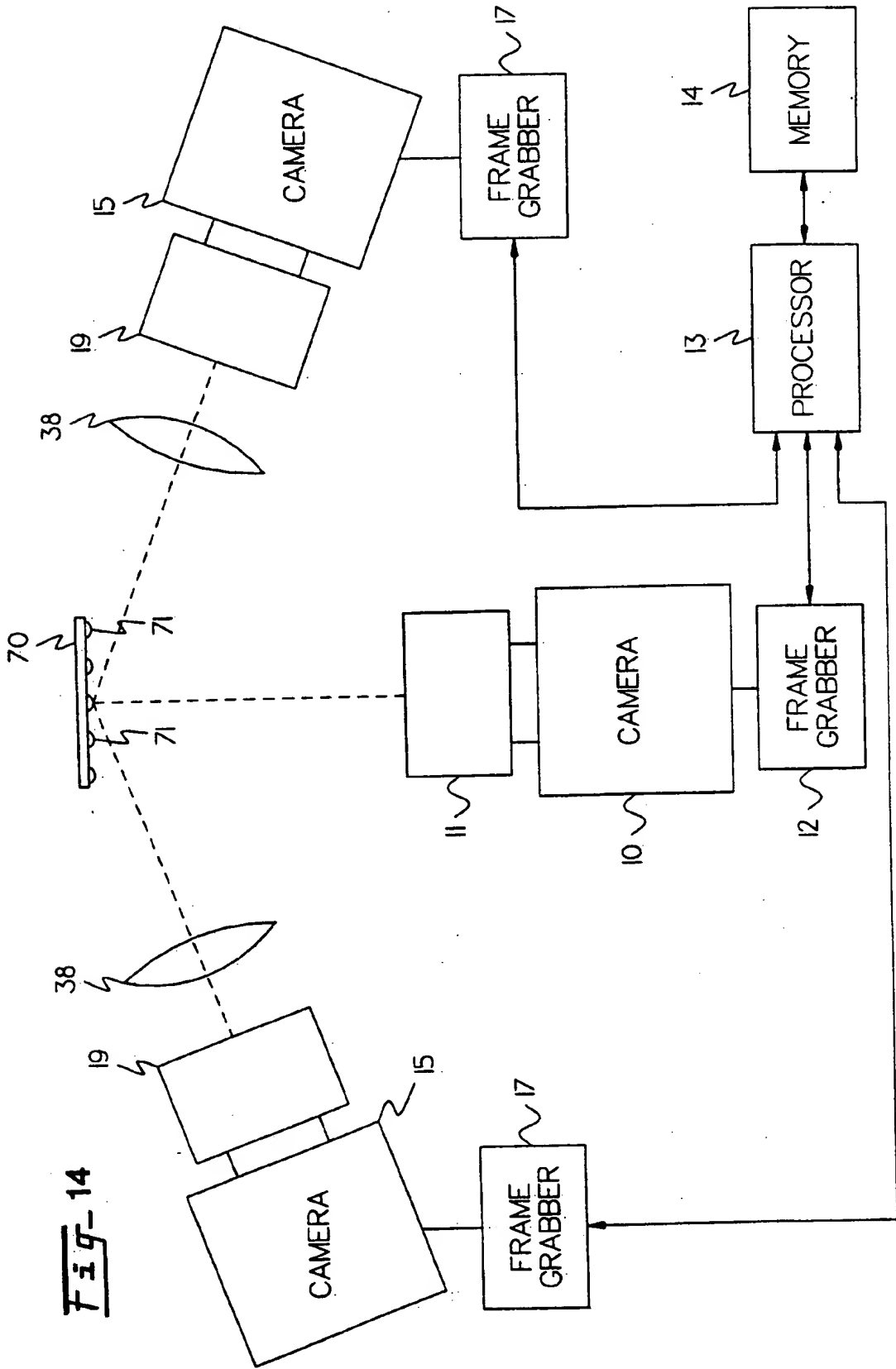


FIG. 14



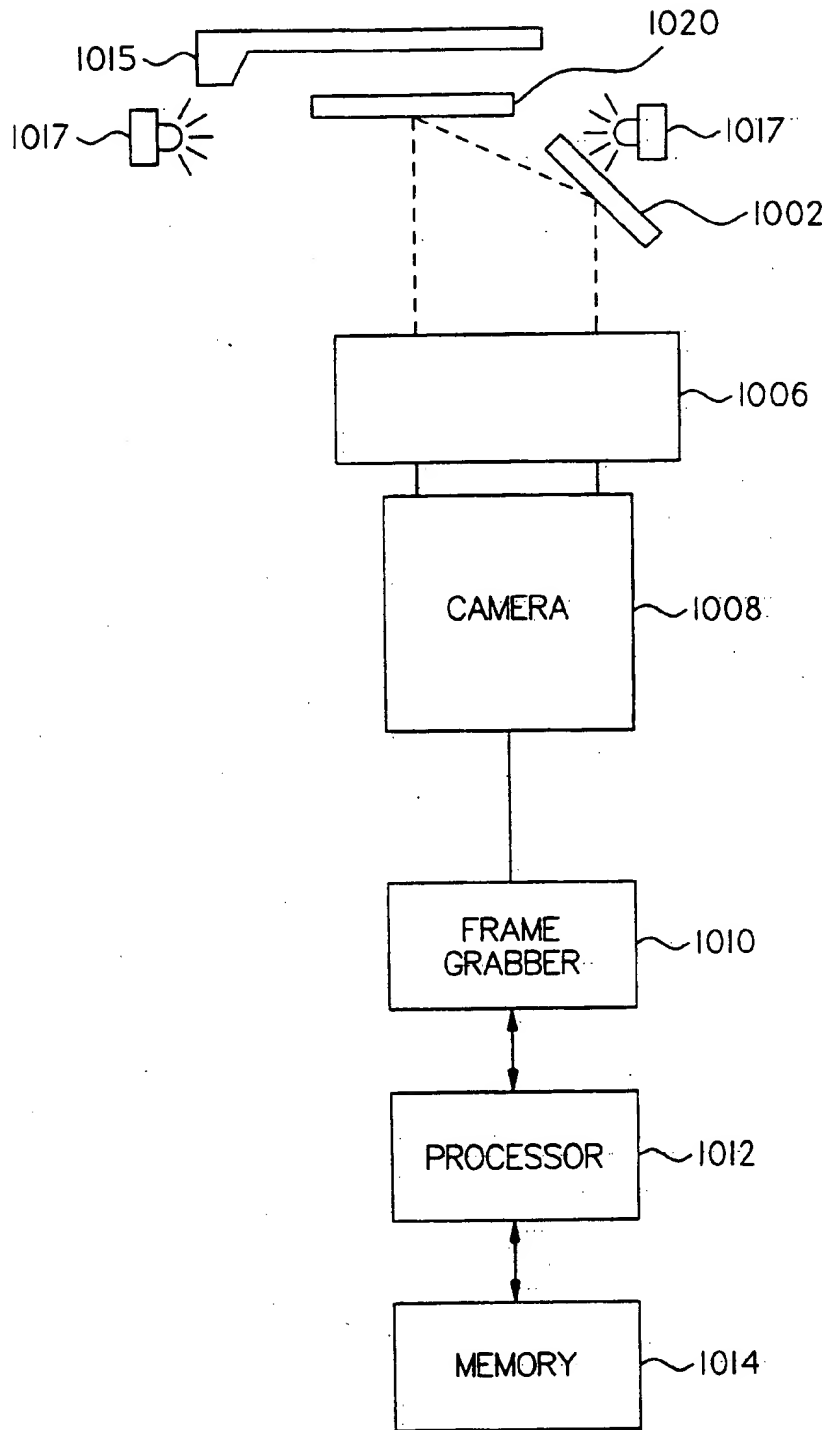


Fig-15

09844626-042701

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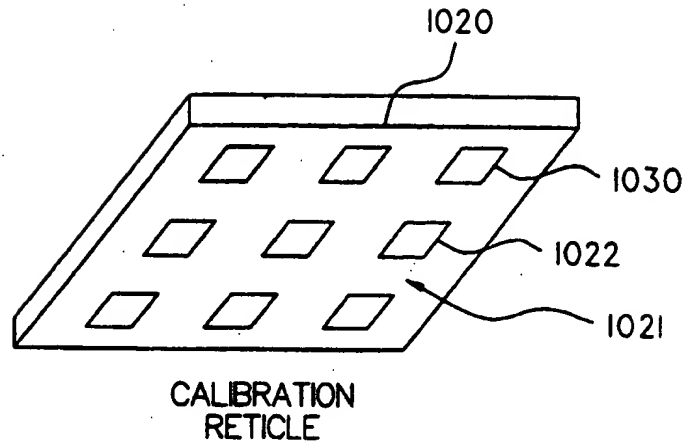
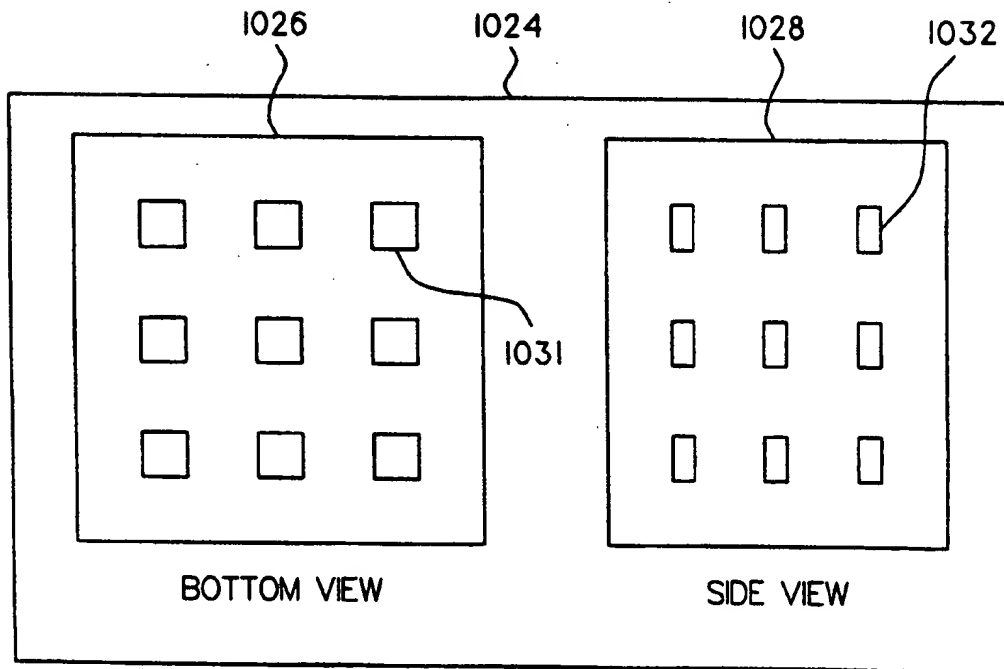


Fig- 16A



IMAGE

Fig- 16B

FIG. 16A

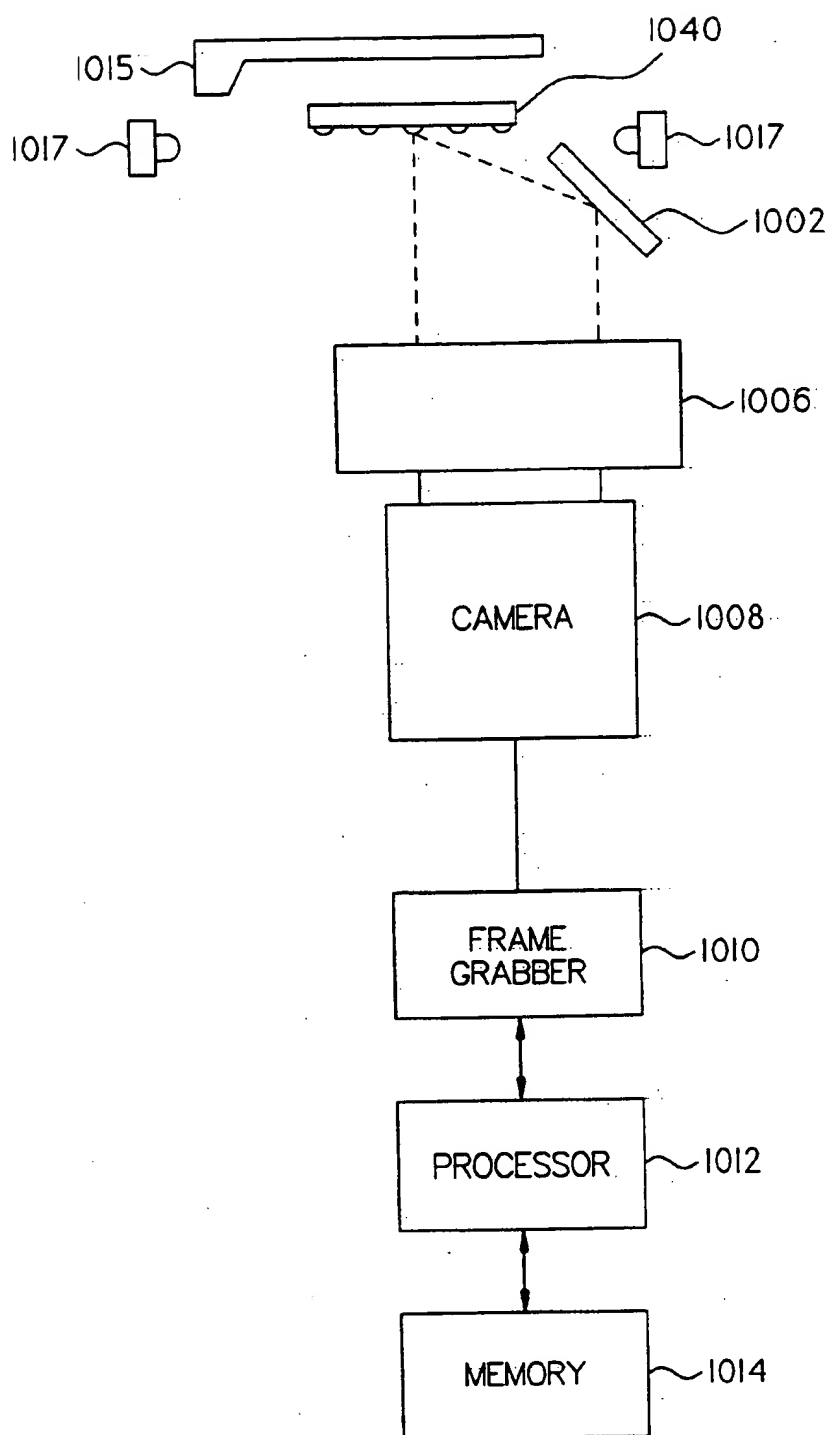


Fig. 17

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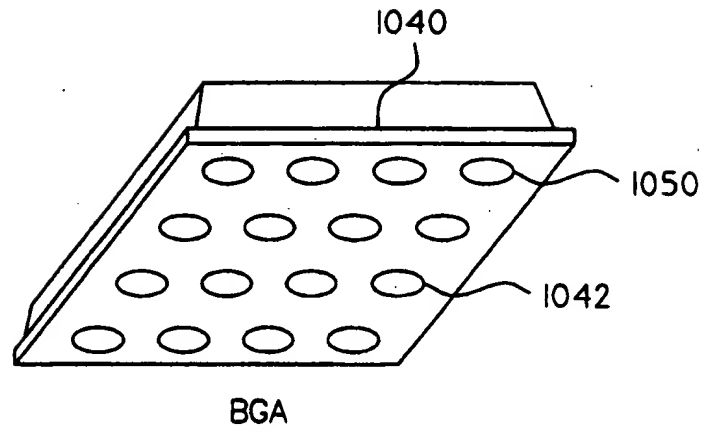
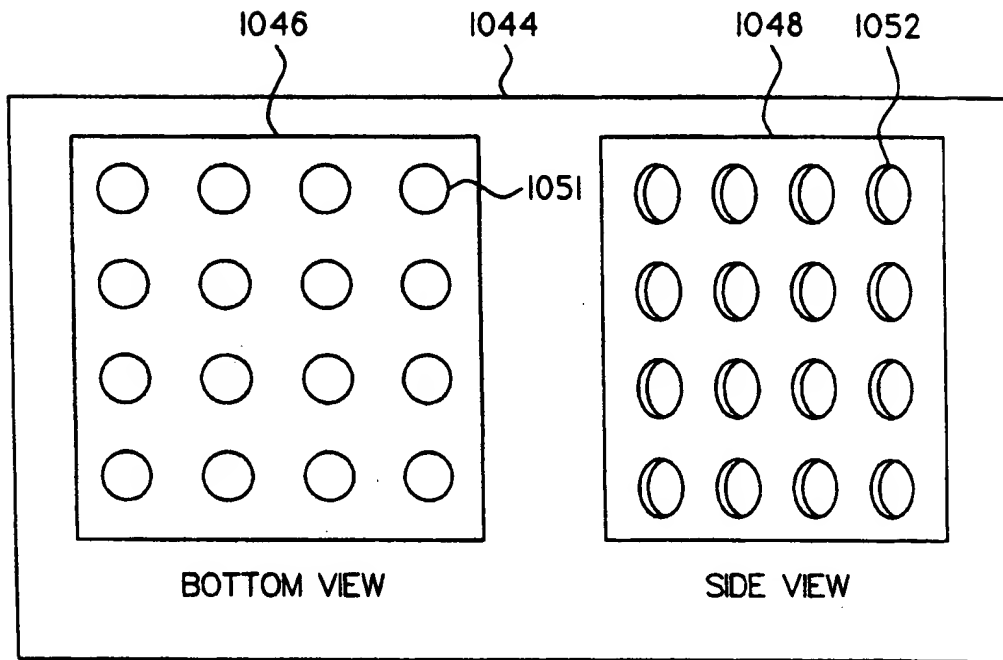


Fig- 18A



IMAGE

Fig- 18B

09844626.042701